

Amendment of the Specification

Please amend paragraph [0006] of the specification at page 2 as follows:

[0006] The invention provides a trench-type storage device (capacitor) having multiple conductive carbon nanotubes forming an open-ended cylinder structure lining the trench. A non-carbon based trench conductor (e.g., polysilicon, metals, alloys, etc.) fills the trench inside the open cylinder structure of carbon nanotube bundles. More specifically, in a process for making the invention, a carbon nanotube catalyst structure is formed on a substrate and at least one trench is patterned in the substrate. Then, the process grows multiple carbon nanotubes down into the trench to line the trench with carbon nanotubes bundles, after which the invention fills the trench with the trench conductor.

Please amend paragraph [00020] of the specification at page 5 as follows:

[00020] The invention then introduces the carbon nanotube formation gas (such as carbon monoxide, acetylene, ethylene, or other suitable carbon sources) at elevated temperature (such as 500-900° C), to allow the-a plurality of (multiple) carbon nanotube nanotubes 202 to grow down into the trench from the catalyst at the bottom of the pad structure. As shown in Figure 3, the invention then fills the remaining portion of the trench with a trench conductor 300 (e.g., polysilicon, metal, alloy, etc.) that becomes in direct contact with the plurality of carbon nanotubes 202 as shown in Figure 3, as in a conventional fill process, and planarizes the structure.